Exhibit

<u>Joint Claim Construction Chart – U.S. Patent 5,528,222¹</u>

Claim Text (U.S. Patent 5,528,222)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
1. A thin flexible electronic radio frequency tag circuit comprising;	The preamble is not a claim limitation.		The preamble is not a claim limitation.	
an insulating, flexible substrate;	ordinary meaning		ordinary meaning	
an antenna that is an integral part of the substrate and that has terminals;	The phrase "integral part of the substrate" includes but is not limited to "etched onto or plated on the substrate." remaining terms – ordinary meaning	Col. 4, lns. 6-8	The phrase "integral part of the substrate" includes but is not limited to "etched onto or plated on the substrate." remaining terms – ordinary meaning	Col. 4, lns. 6-8
a circuit chip having a modulator circuit, a logic circuit, a memory circuit, and chip connectors and being on the substrate in adjacent proximity to the antenna;	proximity" means "close (i.e., not stacked)", where "stacked" refers to the stacking of electrical planes as opposed to physical stacking.	Col. 4, lns. 18-27; Fig. 2.	"adjacent proximity" means "close with no stacking"	Col. 4, lns. 22-26; Col. 3, lns. 19-20 File History ("FH"): Application filed 9/9/94 at p. 10.
	remaining terms – ordinary meaning		remaining terms – ordinary meaning	

¹ Shaded rows indicate that the parties are in agreement as to the claim construction for that particular claim limitation.

Claim Text (U.S. Patent 5,528,222)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
terminals and the chip connectors, the connecting lines being coplanar with the antenna and antenna terminals.	should be given its ordinary and accustomed meaning to mean "any substance that connects two or more electrical components." The term "coplanar" should be construed to mean "no vias, crossovers, etc. single plane of	Col. 2, lns. 48-50; Col. 3, lns. 15-18;	"electrical conductor excluding the bonding types of thermal compression, single point bonding, C4 bonding, and conductive adhesive" "coplanar" means "a single	Col. 7, lns. 57-60; Col. 8, lns. 29-38. FH: Application filed 9/9/94 at p. 10; Col. 4, lns. 20-22; Col. 5, lns. 41-42
	remaining terms – ordinary meaning		remaining terms – ordinary meaning	

<u>Joint Claim Construction Chart – U.S. Patent 5,912,632</u>

Claim Text (U.S. Patent 5,912,632)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
1. A passive radio frequency (RF) transponder (tag) for receiving an RF signal from a base station, comprising;	The preamble is not a claim limitation		The preamble is not a claim limitation	
a tag antenna for receiving the RF signal fron [sic] the base station the RF signal having a carrier frequency;	ordinary meaning, where there is no distinction between "base station" and an RFID reader.		ordinary meaning, where there is no distinction between "base station" and an RFID reader.	
a tag rectification power supply connected to the tag antenna;	ordinary meaning		ordinary meaning	
a tag logic section and a tag memory section the tag logic section and the tag memory section receiving power only from the tag antenna through the tag rectification power supply;	ordinary meaning		ordinary meaning	
a receiver section connected to the tag antenna; and	ordinary meaning		ordinary meaning	
a tag oscillator connected to the receiver section,	ordinary meaning		ordinary meaning	

Claim Text (U.S. Patent 5,912,632)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
the tag oscillator having a plurality of possible discrete frequencies of oscillation,	ordinary meaning		ordinary meaning	
the tag oscillator having a tag oscillation frequency much less than the carrier frequency,	The phrase "much less than" means "less than one-fifth as much" remaining terms – ordinary meaning		The phrase "much less than" means "less than one-fifth as much" remaining terms – ordinary meaning	
the tag oscillator frequency used to determine a tag modulation frequency of an RF signal backscattered from the tag antenna,	The term "backscatter" means "the reflection of incoming RF energy centered about the carrier frequency." remaining terms – ordinary meaning		"backscatter" means "the rebroadcasting or reflection of incoming RF energy at the carrier frequency." remaining terms – ordinary meaning	Col. 1, lns. 46-51
the tag oscillation frequency determined by the RF signal sent from the base station.	This claim limitation should be construed to mean that the "tag oscillation frequency" is "determined by" the modulation frequency of "the RF signal sent from the base station" as opposed to the carrier frequency of "the RF signal sent from the base station."	Col. 1, lns. 12-14; Col. 5, lns. 2-4; Fig. 8; Col. 8, lns. 21-24.	ordinary meaning	

Claim Text (U.S. Patent 5,912,632)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
13. A method of setting a tag oscillation frequency of a tag oscillator of a passive RF tag comprising;	The method is limited to a passive tag.		The method is limited to a passive tag.	
a) receiving an RF signal from a base station, and;	ordinary meaning, where there is no distinction between "base station" and an RFID reader.		ordinary meaning, where there is no distinction between "base station" and an RFID reader.	
b) adjusting the tag oscillation frequency in response to the RF signal from the base station,	This claim limitation should be construed to mean "adjusting the tag oscillation frequency in response to" the modulation frequency of "the RF signal from the base station" as opposed to the carrier frequency of "the RF signal from the base station."	Col. 1, lns. 12-14; Col. 5, lns. 2-4; Fig. 8; Col. 8, lns. 21-24.	ordinary meaning	
wherein the tag oscillation frequency is much less than a carrier frequency of the RF signal,	The phrase "much less than" means "less than one-fifth as much" remaining terms – ordinary meaning		The phrase "much less than" means "less than one-fifth as much" remaining terms – ordinary meaning	

Claim Text (U.S. Patent 5,912,632)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
to determine a tag	The term "backscatter" means "the reflection of incoming RF energy centered about the carrier frequency." remaining terms – ordinary meaning		"backscatter" means "the rebroadcasting or reflection of incoming RF energy at the carrier frequency." remaining terms – ordinary meaning	Col. 1, lns. 46-51
22. A system for sending and receiving modulated RF signals, comprising;	The preamble is not a claim limitation.		The preamble is not a claim limitation.	
a base station for sending modulated RF signals, the RF signals having a carrier frequency; and	ordinary meaning, where there is no distinction between "base station" and an RFID reader.		ordinary meaning, where there is no distinction between "base station" and an RFID reader.	
at least one passive RF tag for receiving the RF signals, the RF tag comprising	ordinary meaning		ordinary meaning	
a tag antenna for receiving the RF signal from the base station,	ordinary meaning		ordinary meaning	
a tag receiver section connected to the tag antenna; and	ordinary meaning		ordinary meaning	
a tag oscillator connected to the tag receiver section,	ordinary meaning		ordinary meaning	

Claim Text (U.S. Patent 5,912,632)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
the tag oscillator having a tag oscillation frequency much less than the carrier frequency,	The phrase "much less than" means "less than one-fifth as much" remaining terms – ordinary meaning		The phrase "much less than" means "less than one-fifth as much" remaining terms – ordinary meaning	
the tag oscillation frequency used to determine the a modulation frequency of an RF signal backscattered from the tag antenna,	The term "backscatter" means "the reflection of incoming RF energy centered about the carrier frequency." remaining terms – ordinary meaning		"backscatter" means "the rebroadcasting or reflection of incoming RF energy at the carrier frequency." remaining terms – ordinary meaning	Col. 1, lns. 46-51
the tag oscillator frequency determined by the RF signals sent by the base station.	This claim limitation should be construed to mean that the "tag oscillation frequency" is "determined by" the modulation frequency of "the RF signals sent by the base station" as opposed to the carrier frequency of "the RF signals sent by the base station."	Col. 1, lns. 12-14; Col. 5, lns. 2-4; Fig. 8; Col. 8, lns. 21-24.	ordinary meaning	

Claim Text (U.S. Patent 5,912,632)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
28. A passive radio frequency (RF) transponder (tag) for receiving an RF signal from a base station, comprising;	The preamble is not a claim limitation.		The preamble is not a claim limitation.	
a tag antenna for receiving the RF signal from the base station, the RF signal having a carrier frequency;	ordinary meaning		ordinary meaning	
a receiver section connected to the tag antenna;	ordinary meaning		ordinary meaning	
a tag rectification power supply connected to the tag antenna;	ordinary meaning		ordinary meaning	
a tag logic section and a tag memory section, the tag logic section and the tag memory section receiving power only from the tag antenna through the tag rectification power supply; and	ordinary meaning		ordinary meaning	
a tag oscillator connected to the receiver section,	ordinary meaning		ordinary meaning	

Claim Text (U.S. Patent 5,912,632)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
the tag oscillator having a tag oscillation frequency much less than the carrier frequency,	The phrase "much less than" means "less than one-fifth as much" remaining terms – ordinary meaning		The phrase "much less than" means "less than one-fifth as much" remaining terms – ordinary meaning	
the tag oscillation frequency used to determine a tag modulation frequency of an RF signal backscattered from the tag antenna,	The term "backscatter" means "the reflection of incoming RF energy centered about the carrier frequency." remaining terms – ordinary meaning		"backscatter" means "the rebroadcasting or reflection of incoming RF energy at the carrier frequency." remaining terms – ordinary meaning	Col. 1, lns. 46-51
	This claim element should be construed to mean that the "tag oscillation frequency" is "determined by" the modulation frequency of "the RF signal sent from the base station" as opposed to the carrier frequency of "the RF signal sent from the base station."	Col. 1, lns. 12-14; Col. 5, lns. 2-4; Fig. 8; Col. 8, lns. 21-24.	ordinary meaning	

<u>Joint Claim Construction Chart – U.S. Patent 5,995,019</u>

Claim Text (U.S. Patent 5,995,019)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
1. A method for communicating between a base station and a set of radio frequency RF transponders (Tags) comprising:	The preamble is not a claim limitation.		The preamble is not a claim limitation.	
defining a plurality of RF tags into different groups according to a physical wave characteristic of the electromagnetic wave energy received from the RF tags, and	The terms of this claim element should be given their ordinary and accustomed meaning where "physical wave characteristic" includes any physical attribute of the "electromagnetic wave energy received from the RF tags," including but not limited to signal strength, polarization, phase, carrier frequency and/or modulation frequency.	Col. 2, ln. 61- Col. 3, ln 27; Col. 6, lns. 60-64.	"defining a plurality of RF tags into different groups according to a physical wave characteristic of the electromagnetic wave energy received from the RF tags excluding grouping where the tags select themselves according to a signal from the base station"	FH: Response to Amendment received March 17, 1999 at p.5; Col. 2, lns. 46-58; Col. 7, lns. 53-61; Col. 12, lns. 3-11.
communicating with the tags in each defined group.	ordinary meaning		"communicating with all of the tags in each group as grouped"	Col. 2, lns. 18-19; Col. 2, lns. 46-58; Col. 7, lns. 48-61; Col. 11, lns. 12-23.
3. The method of claim 1 wherein at least one defining physical wave characteristic is the wave frequency.	ordinary meaning		ordinary meaning	

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Claim Text (U.S. Patent 5,995,019)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
9. An RF tag base station comprising	The preamble is not a claim limitation.		The preamble is not a claim limitation.	
a computer	ordinary meaning		ordinary meaning	
a transmitter	ordinary meaning		ordinary meaning	
a receiver, and	ordinary meaning		ordinary meaning	
at least one antenna,	ordinary meaning		ordinary meaning	
wherein the RF tag base station communicates with a plurality of RF tags by:	ordinary meaning, where there is no distinction between "base station" and an RFID reader.		ordinary meaning where there is no distinction between "base station" and an RFID reader.	
interrogating the RF tags with electromagnetic energy,	ordinary meaning		ordinary meaning	
grouping the RF tags according to a physical characteristic of their responsive electromagnetic signals, and		Col. 2, ln. 61- Col. 3, ln 27. Col. 6, lns. 60-64.	according to a physical characteristic of their responsive electromagnetic	FH: Response to Amendment received March 17, 1999 at p.5; Col. 2, lns. 46-58; Col. 7, lns. 53-61; Col. 12, lns. 3-11.

Claim Text (U.S. Patent 5,995,019)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
reading the RF tags in each group.	The terms of this claim element should be given their ordinary and accustomed meaning.			Col. 2, lns. 18-19; Col. 2, lns. 46-58; Col. 7, lns. 48-61; Col. 11, lns. 12-23.
11. A base station as in claim 9 wherein RF tags are grouped according to the wave frequency of their respective return signals.	ordinary meaning		ordinary meaning	
16. A base station as in claim 9 wherein RF tags are grouped according to the frequency modulation of their respective return signals.	ordinary meaning		ordinary meaning	
18. An RF tag unit reading unit comprising:	The preamble is not a claim limitation.		The preamble is not a claim limitation.	
a computer;	ordinary meaning		ordinary meaning	
a transmitter;	ordinary meaning		ordinary meaning	
a receiver; and	ordinary meaning		ordinary meaning	
at least one antenna;	ordinary meaning		ordinary meaning	
wherein the RF tag reading unit communicates with a plurality of RF tags by:	"tag reading unit" means "base station"	Col. 3, lns. 55-62.	"tag reading unit" means "base station"	Col. 3, lns. 55-62.
interrogating the RF tags with electromagnetic energy;	ordinary meaning		ordinary meaning	

Claim Text (U.S. Patent 5,995,019)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
grouping the RF tags according to a physical characteristic of their responsive electromagnetic signals, and	\mathcal{L}	Col. 6, lns. 60-64.	"grouping the RF tags according to a physical characteristic of their responsive electromagnetic signals excluding grouping where the tags select themselves according to a signal from the tag reading unit"	FH: Response to Amendment received March 17, 1999 at p.5; Col. 2, lns. 46-58; Col. 7, lns. 53-61; Col. 12, lns. 3-11.
reading the RF tags in each group.	ordinary meaning		"reading all of the tags in each group as grouped"	Col. 2, lns. 18-19; Col. 2, lns. 46-58; Col. 7, lns. 48-61; Col. 11, lns. 12-23.

<u>Joint Claim Construction Chart – U.S. Patent 6,371,375</u>

Claim Text (U.S. Patent 6,371,375)	Intermec's Proposed Construction	Intrinsic Evidence for Intermec's Proposed Construction	Symbol's Proposed Construction	Intrinsic Evidence for Symbol's Proposed Construction
1. A system for storing and retrieving data comprising:	The preamble is not a claim limitation.		The preamble is not a claim limitation.	
a radio frequency tag having a memory for storing data;	ordinary meaning		ordinary meaning	
a first identifier stored in the memory of the radio frequency tag; and	ordinary meaning		ordinary meaning	
a machine readable symbol associated with the radio frequency tag, at least a portion of the machine readable symbol encoding a second identifier logically associable with the first	"perceptually linked"	Col. 3, ln. 66 – Col. 4, ln. 6; Col. 5, lns. 13-20; FH: Response to Office Action dated Sep. 1, 2000, at p. 2.	"Associated" means "perceptually linked"	Col. 3, ln. 66 – Col. 4, ln. 6; Col. 5, lns. 13-20; FH: Response to Office Action dated Sep. 1, 2000, at p. 2.
identifier.	that a "correspondence can be drawn between the identifiers, including but not limited to	FH: Response to Office Action dated September 1, 2000, at p. 2; Col. 5, lns. 28-38.	including but not limited to	FH: Response to Office Action dated September 1, 2000, at p. 2; Col. 5, lns. 28-38.

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